

Title (en)
CONSUMABLE SHEET-PRODUCT LEVEL MONITORING DISPENSER

Title (de)
SPENDER FÜR VERBRAUCHSMATERIALBLÄTTER MIT FÜLLSTANDSKONTROLLE

Title (fr)
DISTRIBUTEUR DE FEUILLES CONSOMMABLES AVEC CONTRÔLE DE NIVEAU

Publication
EP 3803821 B1 20231004 (EN)

Application
EP 19815053 A 20190607

Priority
• US 201862682039 P 20180607
• US 2019035987 W 20190607

Abstract (en)
[origin: WO2019236963A1] An apparatus, system and method for a consumable sheet-product level monitoring dispenser for association with a sheet-product filled consumable. The embodiments include at least a receiver for receiving the consumable upon insertion thereof; at least one sensor associated with at least one opening in the receiver; a sensing module for receiving sheet-product level data from the at least one sensor; and a communications module for communicating the sheet-product level to at least a mobile device display and over at least one network to at least one back end module.

IPC 8 full level
G01B 11/02 (2006.01); **B65D 83/08** (2006.01); **A47K 10/32** (2006.01)

CPC (source: CN EP US)
A47K 10/32 (2013.01 - CN); **B65D 83/0805** (2013.01 - CN EP); **B65D 83/0894** (2013.01 - CN); **B65H 1/04** (2013.01 - CN); **G01B 11/026** (2013.01 - CN EP US); **G06Q 10/087** (2013.01 - CN); **A47K 10/32** (2013.01 - US); **A47K 2010/3226** (2013.01 - CN EP); **A47K 2010/3266** (2013.01 - CN US); **A47K 2010/3293** (2013.01 - CN EP); **B65D 2203/04** (2013.01 - CN EP); **B65H 2403/941** (2013.01 - CN); **B65H 2407/21** (2013.01 - CN); **B65H 2551/21** (2013.01 - CN); **B65H 2553/30** (2013.01 - CN); **B65H 2553/414** (2013.01 - CN); **B65H 2557/10** (2013.01 - CN); **B65H 2601/322** (2013.01 - CN); **G01B 2210/58** (2013.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2019236963 A1 20191212; CN 112513948 A 20210316; CN 112513948 B 20230804; CN 117045145 A 20231114; EP 3803821 A1 20210414; EP 3803821 A4 20220309; EP 3803821 B1 20231004; EP 4276034 A2 20231115; EP 4276034 A3 20231206; US 12092447 B2 20240917; US 2021239455 A1 20210805

DOCDB simple family (application)
US 2019035987 W 20190607; CN 201980050236 A 20190607; CN 202310913671 A 20190607; EP 19815053 A 20190607; EP 23199307 A 20190607; US 201916972282 A 20190607